## INTERNATIONAL SEARCH REPORT

International Application No

JP2004/017901 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01M8/02 H01 H01M8/12 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 HO1M Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category o EP 1 447 869 A (HALDOR TOPSOE A/S) 1-6 P,X 18 August 2004 (2004-08-18) figures 1-4 DE 100 38 589 A1 (HOELLER, STEFAN; KUETER, 1-6 X UWE) 28 February 2002 (2002-02-28) figure 4 1-6 Х US 2002/086200 A1 (MARGIOTT PAUL R) 4 July 2002 (2002-07-04) figures 1-4 Y US 6 207 312 B1 (WYNNE ROBERT KENNETH ET 1-8 AL) 27 March 2001 (2001-03-27) figure 2 -/--Patent family members are listed in annex. Further documents are listed in the continuation of box C. O Special categories of cited documents : T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international filing date "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) The document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "O" document referring to an oral disclosure, use, exhibition or other means \*P\* document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the International search report Date of the actual completion of the international search (I 0. 05. 05 11 March 2005 Authorized office: Name and malling address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016 Koessler, J-L

1

## INTERNATIONAL SEARCH REPORT

International Application No
P JP2004/017901

. •		70 372004/01/301
C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
Υ	US 5 846 668 A (WATANABE ET AL) 8 December 1998 (1998-12-08) figures 4,7,9	1-6
Y	US 6 146 780 A (CISAR ET AL) 14 November 2000 (2000-11-14) figure 16	1-8,11
Υ	US 5 641 586 A (WILSON ET AL) 24 June 1997 (1997-06-24) figures 1,2	1-8
X	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 04, 31 May 1995 (1995-05-31) -& JP 07 029579 A (TANAKA KIKINZOKU KOGYO KK), 31 January 1995 (1995-01-31) abstract; figures 5,7	1-6
X	WO 94/11912 A (BALLARD POWER SYSTEMS INC) 26 May 1994 (1994-05-26) figures 7-9,13	1-6
X Y	PATENT ABSTRACTS OF JAPAN vol. 010, no. 082 (E-392), 2 April 1986 (1986-04-02) & JP 60 227361 A (FUJI DENKI SOUGOU KENKYUSHO:KK; others: 01), 12 November 1985 (1985-11-12) abstract; figure 1	1-8
Y	WILSON M S ET AL: "ALTERNATIVE FLOW-FIELD AND BACKING CONCEPTS FOR POLYMER ELECTROLYTEMEMBRANE FUEL CELLS." EXTENDED ABSTRACTS, ELECTROCHEMICAL SOCIETY. PRINCETON, NEW JERSEY, US, vol. 95/2, January 1995 (1995-01), pages 1043-1044, XP000553942 ISSN: 0160-4619 figure 1	1-6
	·	٠

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PDT/JP2004/017901

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
EP 1447869 A	18-08-2004	CA 2457186 EP 1447869 JP 2004247309	9 A1	15-08-2004 18-08-2004 02-09-2004
DE 10038589	1 28-02-2002	AU 895510 WO 021328		18-02-2002 14-02-2002
US 2002086200 /	1 04-07-2002	JP 200452306 WO 0205998		29-07-2004 01-08-2002
US 6207312 E	27-03-2001	AU 5926599 CA 234437 CN 133289 EP 111629 JP 200252582 WO 001795	7 A1 1 A 7 A1 4 T	10-04-2000 30-03-2000 23-01-2002 18-07-2001 13-08-2002 30-03-2000
US 5846668	08-12-1998	JP 354049 JP 924581		07-07-2004 19-09-1997
US 6146780 /	14-11-2000	AU 664819 DE 6982611 EP 148481 EP 096361 WO 983322 US 663865	1 D1 2 A2 4 A2 1 A2	18-08-1998 14-10-2004 08-12-2004 15-12-1999 30-07-1998 28-10-2003
US 5641586	24-06-1997	NONE		
JP 07029579	31-01-1995	NONE		
WO 9411912	26-05-1994	AU 541599 WO 941191 US 530037	2 A1	08-06-1994 26-05-1994 05-04-1994
	12-11-1985	NONE		· · ·